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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,841	01/26/2007	Shinji Yasuhara	291014US3PCT	3757
22850 7590 01/07/2010 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.		EXAMINER		
1940 DUKE STREET ALEXANDRIA, VA 22314			RASHID, MAHBUBUR	
ALEAANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3657	
			NOTIFICATION DATE	DELIVERY MODE
			01/07/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/578,841	YASUHARA ET AL.		
Office Action Summary	Examiner	Art Unit		
	MAHBUBUR RASHID	3657		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION (136(a). In no event, however, may a reply be to divide apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).		
Status				
1) ■ Responsive to communication(s) filed on 30 / 2a) ■ This action is FINAL . 2b) ■ This action is FINAL . 2b) ■ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pi			
Disposition of Claims				
4) Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the Examination.	ccepted or b) objected to by the e drawing(s) be held in abeyance. So ction is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/28/2009.	Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/28/2009 has been entered.

Response to Amendment

Claim 1 is amended.

Claims 12-16 are canceled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-11 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Van Rooij et al. (US 5,728,021).

Regarding **claims 1-11**, Van discloses a power transmission chain (figs. 3-9) comprising:

a plurality of links (33, 43 and 53) having front and back insertion parts (35 and 37) into which pins (45 and 47) are inserted; and

a plurality of first pins and a plurality of second pins (45 and 47), in which a first pin fixed to a front insertion part of one link and movably fitted in a back insertion part of another link and a second pin movably fitted in the front insertion part of the one link and fixed to the back insertion part of the other link move relatively in a rolling contacting manner so as to enable bending in a longitudinal direction between the links (figs. 3-9; see also col. 4, lines 4-22),

wherein the pins are fixed to the front and back insertion parts by one of fitting by mechanical press-in, and the fixing is provided at edges of a respective insertion part orthogonal to the longitudinal direction of the insertion part (see col. 4, lines 4-45),

and wherein at least one of following conditions is satisfied:

a difference in dimension between the pins and the respective front and back insertion parts is each of the links, wherein the pins have a larger dimension than the respective insertion parts;

a maximum tensile stress in a periphery of the insertion part after fitting; and stress in the periphery of the insertion part after fitting.

Van discloses all claimed limitations as set forth above including the pins that are fixed into the links by press-fitting or mechanical press-in, the consideration of the shape of the holes in the links (see col. 4, lines 46-63) and the position of the pins in the links during the operation of the chain (see col. 4, line 64 to col. 5, line 36).

Van fails to disclose the other processes (shrink-fitting and cool-fitting) to fix the pins in the links as claimed. The Examiner takes official notice that such processes (shrink-fitting and cool-fitting) are well known methods of attachment for pins and links of a chain. The choice of attachment process is an engineering design choice based on factors such as ease of assembly, durability, availability of materials or equipment and one of ordinary skill in the art would choose any appropriate process of fixing or attachment based on these and other factors.

Van fails to explicitly disclose claimed dimension of 0.005 mm to 0.1 mm, a maximum tensile stress of 1000MPa and the stress of 3 to 80% of an elastic limit. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide such dimension, the tensile stress and the elastic limit as claimed, since it has been held that where the general conditions of a claim are disclosed in the

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prior art, discovering the optimum or workable ranges in order to optimize the link strength involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Response to Arguments

Applicant's arguments with respect to claims 1-1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAHBUBUR RASHID whose telephone number is (571)272-7218. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on (571) 272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bradley T King/ Primary Examiner, Art Unit 3657

/M. R./ Examiner, Art Unit 3657